

What is claimed is:

1. A shaft,
comprising:
a shaft proper; and
a sliding section being provided to said shaft proper, said sliding section including carbon nano fibers.
2. The shaft according to claim 1,
wherein said sliding section is an outermost layer of said shaft proper, which includes a metal and carbon nano fibers.
3. The shaft according to claim 1,
wherein said sliding section is a circular belt-shaped section partially formed in an outermost layer of said shaft proper.
4. A shaft,
comprising:
a shaft proper; and
a sliding section being provided to said shaft proper, said sliding section including carbon nano tubes.
5. The shaft according to claim 4,
wherein said sliding section is an outermost layer of said shaft proper, which includes a metal and carbon nano tubes.
6. The shaft according to claim 4,
wherein said sliding section is a circular belt-shaped section partially formed in an outermost layer of said shaft proper.

7. A bearing,
comprising:
a bearing proper; and
a sliding section being provided to said bearing proper, said sliding section including carbon nano fibers.
8. The bearing according to claim 7,
wherein said sliding section is made of a sintered metal including carbon nano fibers.
9. The bearing according to claim 7,
wherein said sliding section is made of synthetic resin including carbon nano fibers.
10. The bearing according to claim 7,
wherein said sliding section is made of a ceramic including carbon nano fibers.
11. The bearing according to claim 7,
wherein said sliding section is an outermost layer of said bearing proper, which includes a metal and carbon nano fibers.
12. The bearing according to claim 7,
wherein said sliding section is a circular belt-shaped section partially formed in an outermost layer of said bearing proper.
13. A bearing,
comprising:
a bearing proper; and

a sliding section being provided to said bearing proper, said sliding section including carbon nano tubes.

14. The bearing according to claim 13,
wherein said sliding section is made of a sintered metal including carbon nano tubes.

15. The bearing according to claim 13,
wherein said sliding section is made of synthetic resin including carbon nano tubes.

16. The bearing according to claim 13,
wherein said sliding section is made of a ceramic including carbon nano tubes.

17. The bearing according to claim 13,
wherein said sliding section is an outermost layer of said bearing proper, which includes a metal and carbon nano tubes.

18. The bearing according to claim 13,
wherein said sliding section is a circular belt-shaped section partially formed in an outermost layer of said bearing proper.

19. A motor having a rotor shaft, which comprises
a sliding section including carbon nano fibers.

20. A motor having a rotor shaft, which comprises
a sliding section including carbon nano tubes.

21. A motor having a bearing for a rotor shaft,
wherein said bearing comprises a sliding section including carbon
nano fibers.

22. A motor having a bearing for a rotor shaft,
wherein said bearing comprises a sliding section including carbon
nano tubes.